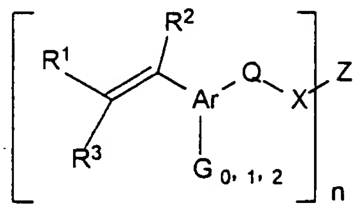
WHAT IS CLAIMED IS:

1. A compound having the structure:



in which

n is 1 to 6;

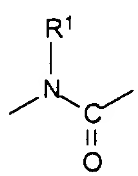
Ar is an aromatic or heteroaromatic ring or fused ring having 3 to 10 carbon atoms within the ring structure, in which the heteroatoms may be N, O, or S;

R^1, R^2, and R^3 are independently hydrogen, an alkyl group having 1 to 12 carbon atoms, or Ar as described above;

G is $-OR^4$, $-SR^4$, $-N(R^1)(R^2)$, Ar as described above, or an alkyl group having 1 to 12 carbon atoms, in which R^1 and R^2 are as described above and R^4 is Ar as described above or an alkyl group having 1 to 12 carbon atoms;

Q is an alkyl group having 1 to 12 carbon atoms;

X is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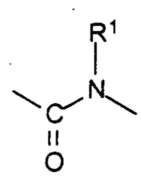
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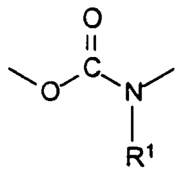
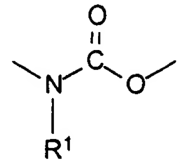
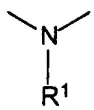
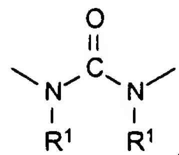
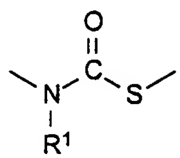
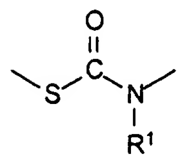
 ,

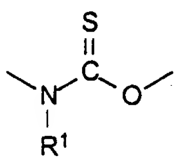
 ,

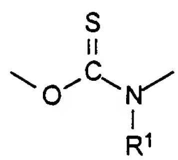
 ,

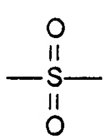
 ,

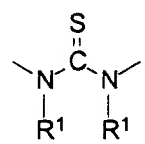
 ,

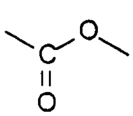
 ,

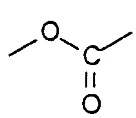
 ,

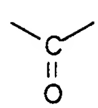
 ,

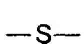
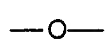
 ,

 ,

 ,

 ,



 or  ;

Z is an alkyl group, a siloxane, a polysiloxane, a C_1 to C_4 alkoxy-terminated siloxane or polysiloxane, a polyether, a polyester, a polyurethane, a poly(butadiene), or an aromatic, polyaromatic or heteroaromatic group.

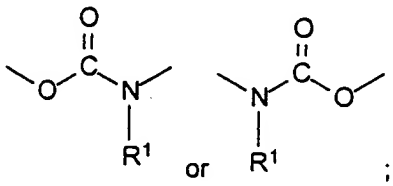
2. The compound according to claim 1 in which

n is 1 or 2;

R^1, R^2, and R^3 are hydrogen,

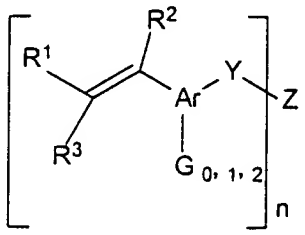
G is $-OCH_3$,

Q is a C_1 to C_4 alkyl,

X is  ; and

Z is a branched or linear C_{18} to C_{36} chain, or a siloxane.

3. A compound having the structure:



in which

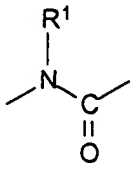
n is 1 to 6;

Ar is an aromatic or heteroaromatic ring or fused ring having 3 to 10 carbon atoms within the ring structure, in which the heteroatoms may be N, O, or S;

R^1, R^2, and R^3 are independently hydrogen, an alkyl group having 1 to 12 carbon atoms, or Ar as described above;

G is $-OR^4$, $-SR^4$, $-N(R^1)(R^2)$, Ar as described above, or an alkyl group having 1 to 12 carbon atoms, in which R^1 and R^2 are as described above and R^4 is Ar as described above or an alkyl group having 1 to 12 carbon atoms;

Y is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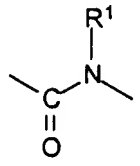
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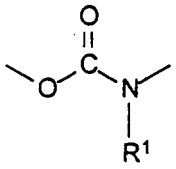
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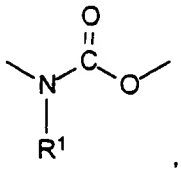
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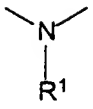
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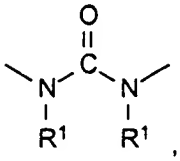
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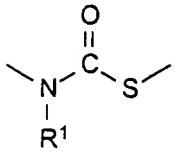
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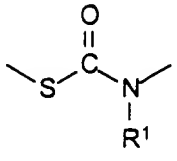
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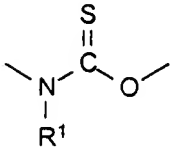
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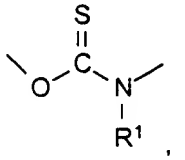
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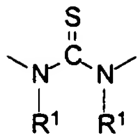
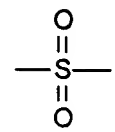
 ,

—S—,

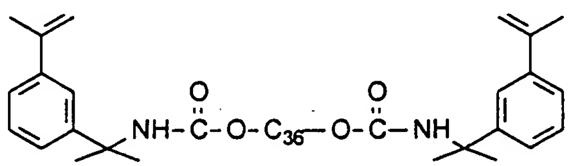
or



; and

Z is an alkyl group, a siloxane, a polysiloxane, a C_1 to C_4 alkoxy-terminated siloxane or polysiloxane, a polyether, a polyester, a polyurethane, a poly(butadiene), or an aromatic, polyaromatic or heteroaromatic group.

4. The compound according to claim 3 having the structure:



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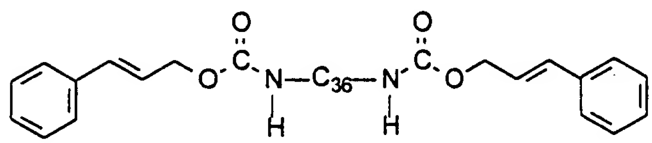

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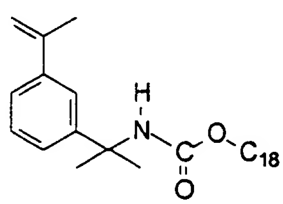
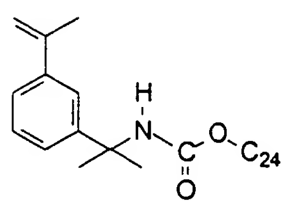


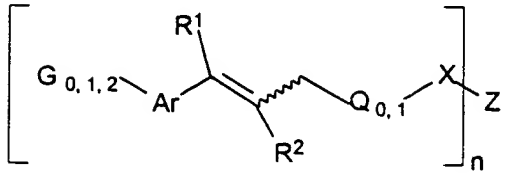
, or



,

in which C_{18}, C_{24}, and C_{36}, represent a mixture of isomers of linear or branched chain alkyl groups having C_{18}, C_{24}, and C_{36} carbon atoms, respectively.

5. A compound having the structure:



in which

n is 1 to 6;

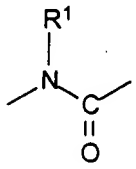
Ar is an aromatic or heteroaromatic ring or fused ring having 3 to 10 carbon atoms within the ring structure, in which the heteroatoms may be N, O, or S;

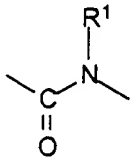
$R^1$and R^2 are independently hydrogen, an alkyl group having 1 to 12 carbon atoms, or Ar as described above;

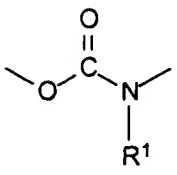
G is $-OR^4$, $-SR^4$, $-N(R^1)(R^2)$, Ar as described above, or an alkyl group having 1 to 12 carbon atoms, in which R^1 and R^2 are as described above and R^4 is Ar as described above or an alkyl group having 1 to 12 carbon atoms;

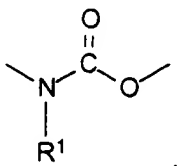
Q is an alkyl group having 1 to 12 carbon atoms;

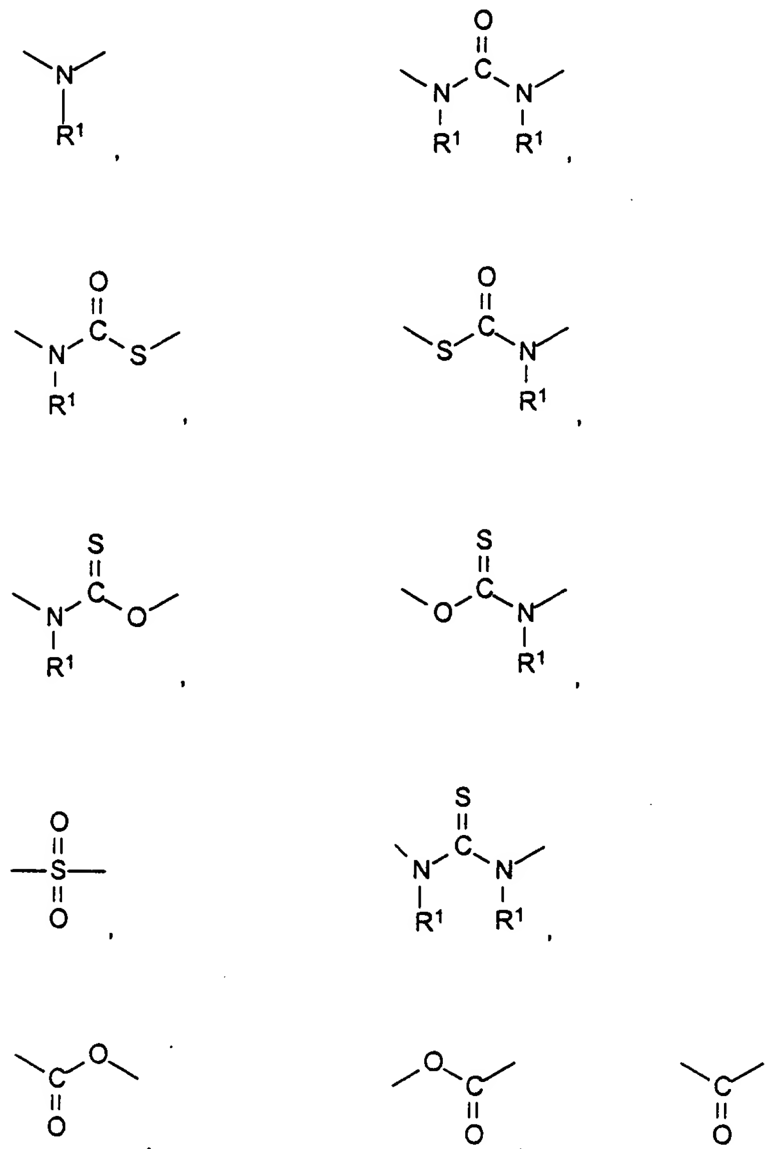
X is











—S— or —O—; and

Z is an alkyl group, a siloxane, a polysiloxane, a C_1 to C_4 alkoxy-terminated siloxane or polysiloxane, a polyether, a polyester, a polyurethane, a poly(butadiene), or an aromatic, polyaromatic or heteroaromatic group.

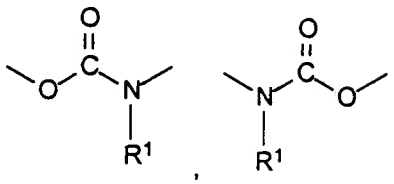
6. The compound according to claim 5 in which

n is 1 or 2;

R^1, R^2, and R^3 are hydrogen,

G is $-OCH_3$,

Q is a C_1 to C_4 alkyl,

X is  , –NH– or –O– ; and

Z is a branched or linear C_{18} to C_{36} chain, or a siloxane.

7. A curable adhesive composition comprising a compound according to any one of claims 1 to 6.

8. A curable adhesive composition comprising a compound according to any one of claims 1 to 6 and at least one copolymerizable electron acceptor compound selected from the group consisting of fumarates, maleates, acrylates and maleimides.

9. A curable adhesive composition comprising a compound according to any one of claims 1 to 6 and a thermally conductive filler.

10. A curable adhesive composition comprising a compound according to any one of claims 1 to 6 and an electrically conductive filler.

11. A curable adhesive composition comprising a compound according to any one of claims 1 to 6 and a nonconductive filler.

12. A curable adhesive composition comprising a compound according to any one of claims 1 to 6, at least one copolymerizable electron acceptor

compound selected from the group consisting of fumarates, maleates, acrylates and maleimides, and a thermally conductive filler.

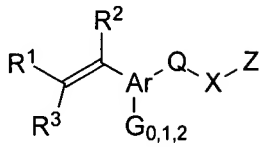
13. A curable adhesive composition comprising a compound according to any one of claims 1 to 6 , at least one copolymerizable electron acceptor compound selected from the group consisting of fumarates, maleates, acrylates and maleimides, and an electrically conductive filler.

14. A curable adhesive composition comprising a compound according to any one of claims 1 to 6, at least one copolymerizable electron acceptor compound selected from the group consisting of fumarates, maleates, acrylates and maleimides, and a nonconductive filler.

15. A semiconductor package in which a silicon chip is adhered to a substrate with an adhesive comprising a compound according to any one of claims 12 to 14.

CLEAN VERSION OF NEW CLAIMS
Attorney docket 1824A

18. A compound having the structure:



in which

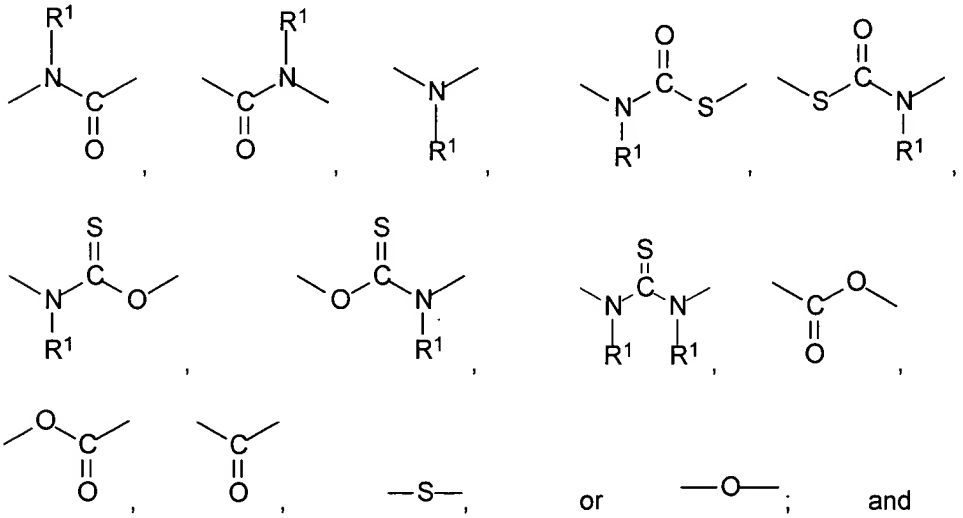
Ar is an aromatic or heteroaromatic ring or fused ring having 3 to 10 carbon atoms within the ring structure, in which the heteroatoms may be N, O, or S;

R^1, R^2, and R^3 are independently hydrogen, an alkyl group having 1 to 12 carbon atoms, or Ar as described above;

G is $-OR^4$, $-SR^4$, $-N(R^1)(R^2)$, Ar as described above, or an alkyl group having 1 to 12 carbon atoms, in which R^1 and R^2 are as described above, and R^4 is Ar as described above or an alkyl group having 1 to 12 carbon atoms;

Q is an alkyl group having 1 to 12 carbon atoms;

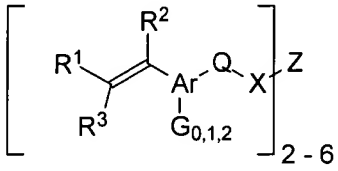
X is



and

Z is an alkyl group, a siloxane, a polysiloxane, a C_1 to C_4 alkoxy-terminated siloxane or polysiloxane, a polyester, a polyurethane, a poly(butadiene), or an aromatic, polyaromatic or heteroaromatic group.

19. A compound having the structure:



in which

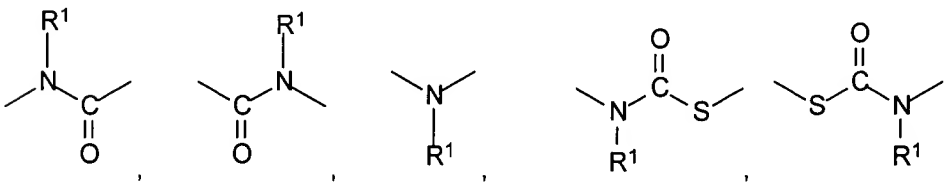
Ar is an aromatic or heteroaromatic ring or fused ring having 3 to 10 carbon atoms within the ring structure, in which the heteroatoms may be N, O, or S;

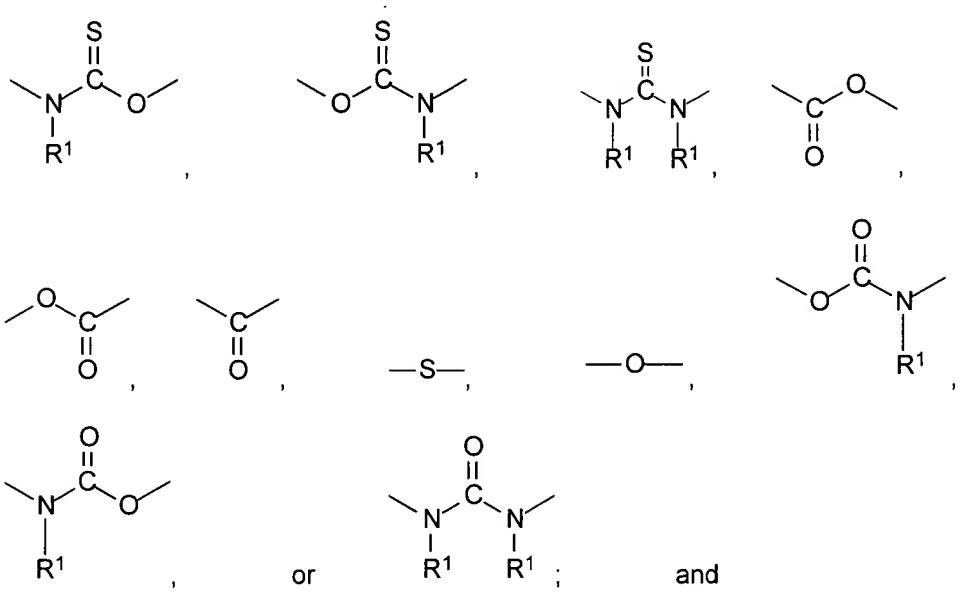
R^1, R^2, and R^3 are independently hydrogen, an alkyl group having 1 to 12 carbon atoms, or Ar as described above;

G is $-OR^4$, $-SR^4$, $-N(R^1)(R^2)$, Ar as described above, or an alkyl group having 1 to 12 carbon atoms, in which R^1 and R^2 are as described above, and R^4 is Ar as described above or an alkyl group having 1 to 12 carbon atoms;

Q is an alkyl group having 1 to 12 carbon atoms;

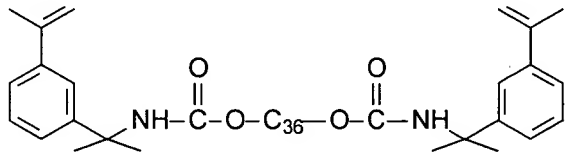
X is





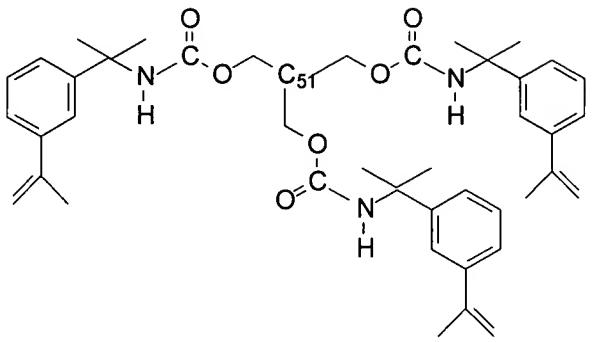
Z is an alkyl group, a siloxane, a polysiloxane, a C_1 to C_4 alkoxy-terminated siloxane or polysiloxane, a polyester, a polyurethane, a poly(butadiene), or an aromatic, polyaromatic or heteroaromatic group.

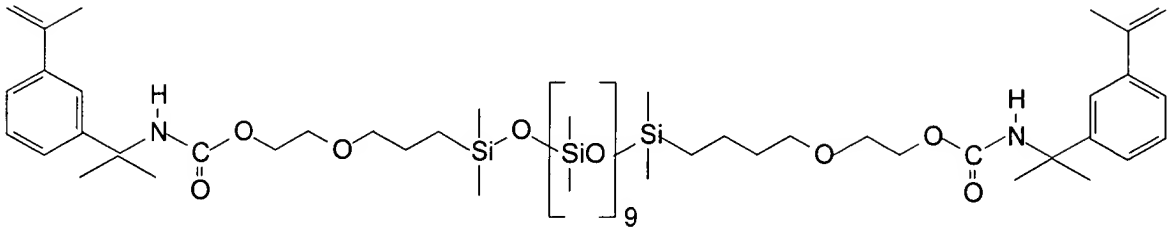
20. The compound according to claim 19 having the structure:

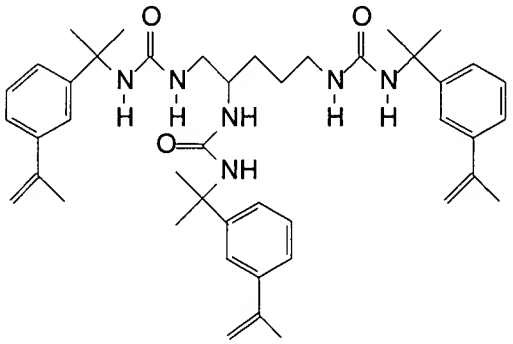


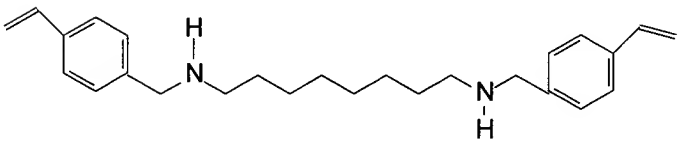
21. The compound according to claim 19 selected from the group consisting of:

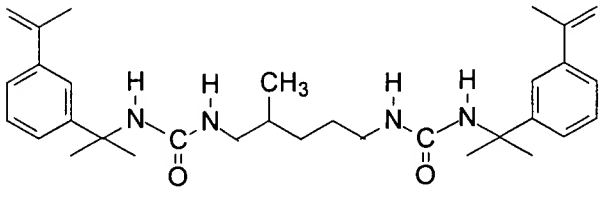
CLEAN VERSION OF NEW CLAIMS
Attorney docket 1824A



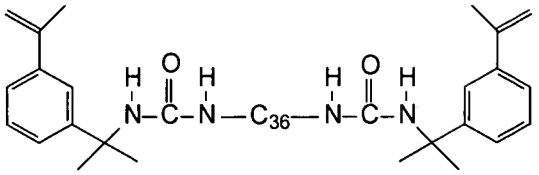




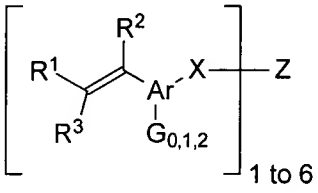




and



22. A compound having the structure:



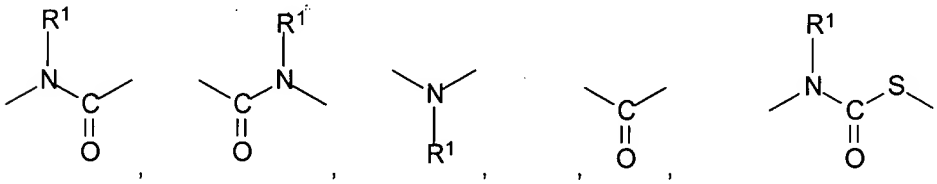
in which

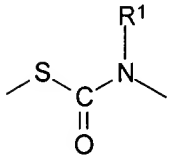
Ar is an aromatic or heteroaromatic ring or fused ring having 3 to 10 carbon atoms within the ring structure, in which the heteroatoms may be N, O, or S;

R^1, R^2, and R^3 are independently hydrogen, an alkyl group having 1 to 12 carbon atoms, or Ar as described above;

G is $-OR^4$, $-SR^4$, $-N(R^1)(R^2)$, Ar as described above, or an alkyl group having 1 to 12 carbon atoms, in which R^1 and R^2 are as described above, and R^4 is Ar as described above or an alkyl group having 1 to 12 carbon atoms;

X is

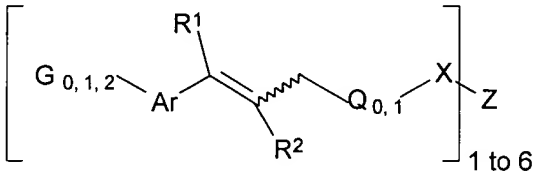




or —S—; and

Z is an alkyl group, a siloxane, a polysiloxane, a C_1 to C_4 alkoxy-terminated siloxane or polysiloxane, a polyester, a polyurethane, a poly(butadiene), or an aromatic, polyaromatic or heteroaromatic group.

23. A compound having the structure:



in which

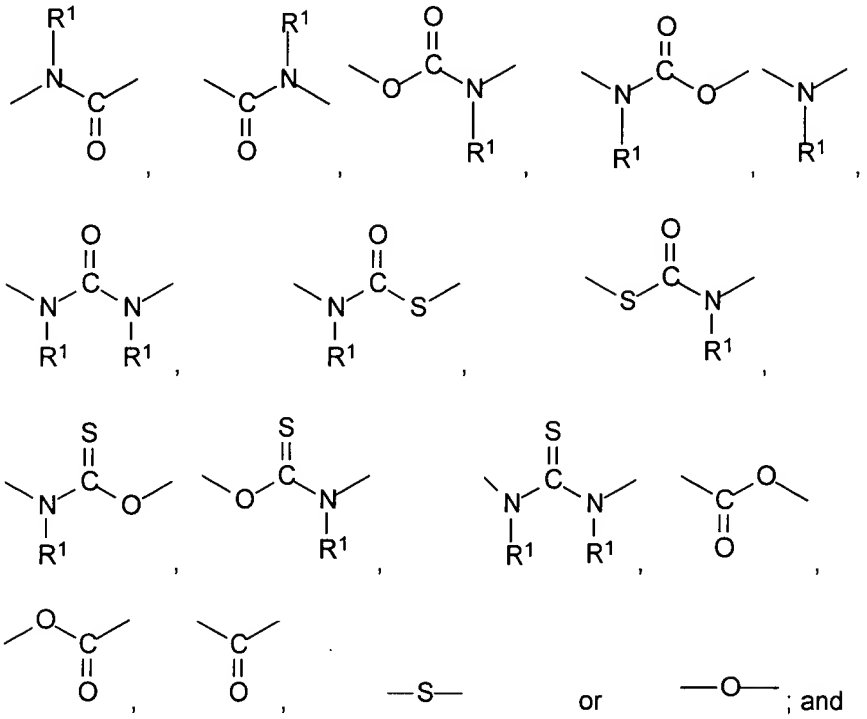
Ar is an aromatic or heteroaromatic ring or fused ring having 3 to 10 carbon atoms within the ring structure, in which the heteroatoms may be N, O, or S;

$R^1$and R^2 are independently hydrogen, an alkyl group having 1 to 12 carbon atoms, or Ar as described above;

G is $-OR^4$, $-SR^4$, $-N(R^1)(R^2)$, Ar as described above, or an alkyl group having 1 to 12 carbon atoms, in which R^1 and R^2 are as described above and R^4 is Ar as described above or an alkyl group having 1 to 12 carbon atoms;

Q is an alkyl group having 1 to 12 carbon atoms;

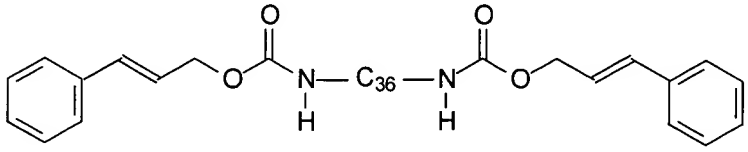
X is

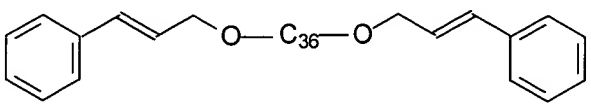


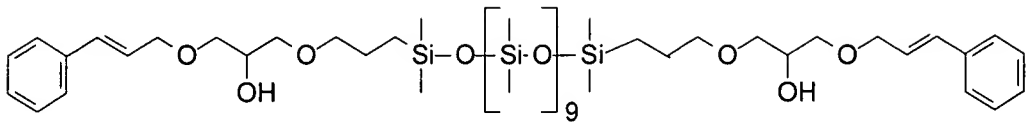
; and

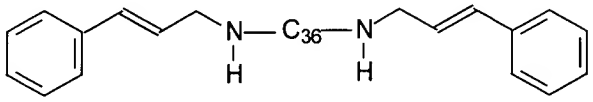
Z is an alkyl group, a siloxane, a polysiloxane, a C_1 to C_4 alkoxy-terminated siloxane or polysiloxane, a polyether, a polyester, a polyurethane, a poly(butadiene), or an aromatic, polyaromatic or heteroaromatic group.

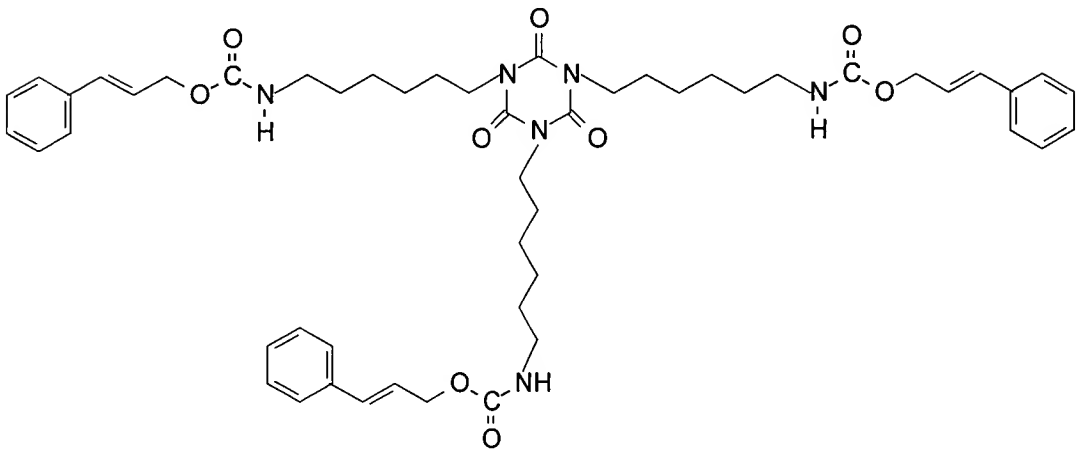
24. The compound according to claim 23 selected from the group consisting of:



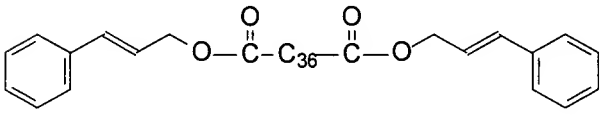








and



25. A curable composition comprising a compound according to claim 18 and a conductive or nonconductive filler.

26. A curable composition comprising a compound according to claim 19 and a conductive or nonconductive filler.

27. A curable composition comprising a compound according to claim 22 and a conductive or nonconductive filler.

28. A curable composition comprising a compound according to claim 23 and a conductive or nonconductive filler.